

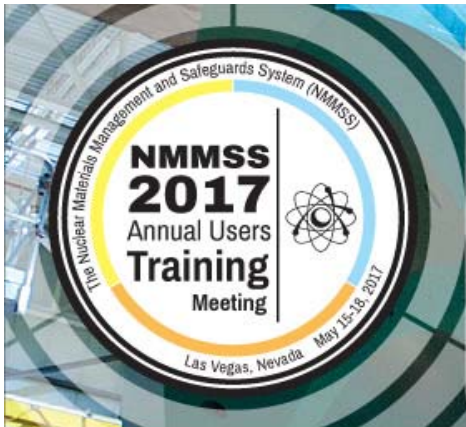


# Roadmap to NMMSS Reporting

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# Objectives

- Discuss high level overview of *nuances* that impact format and content of nuclear material accountancy reporting to NMMSS
- Key takeaways on navigating reporting to NMMSS







# Current Profile of Domestic Facilities Reporting to NMMSS

Facility Types	#	IAEA Selected
Mines and mills	6	
Conversion	1	
Enrichment	3	1
Fuel fabrication	5	3
Research/test reactors	31	
Power reactors	104	
Other facilities	201	
NNSA/DOE	49	1
Total	400	5

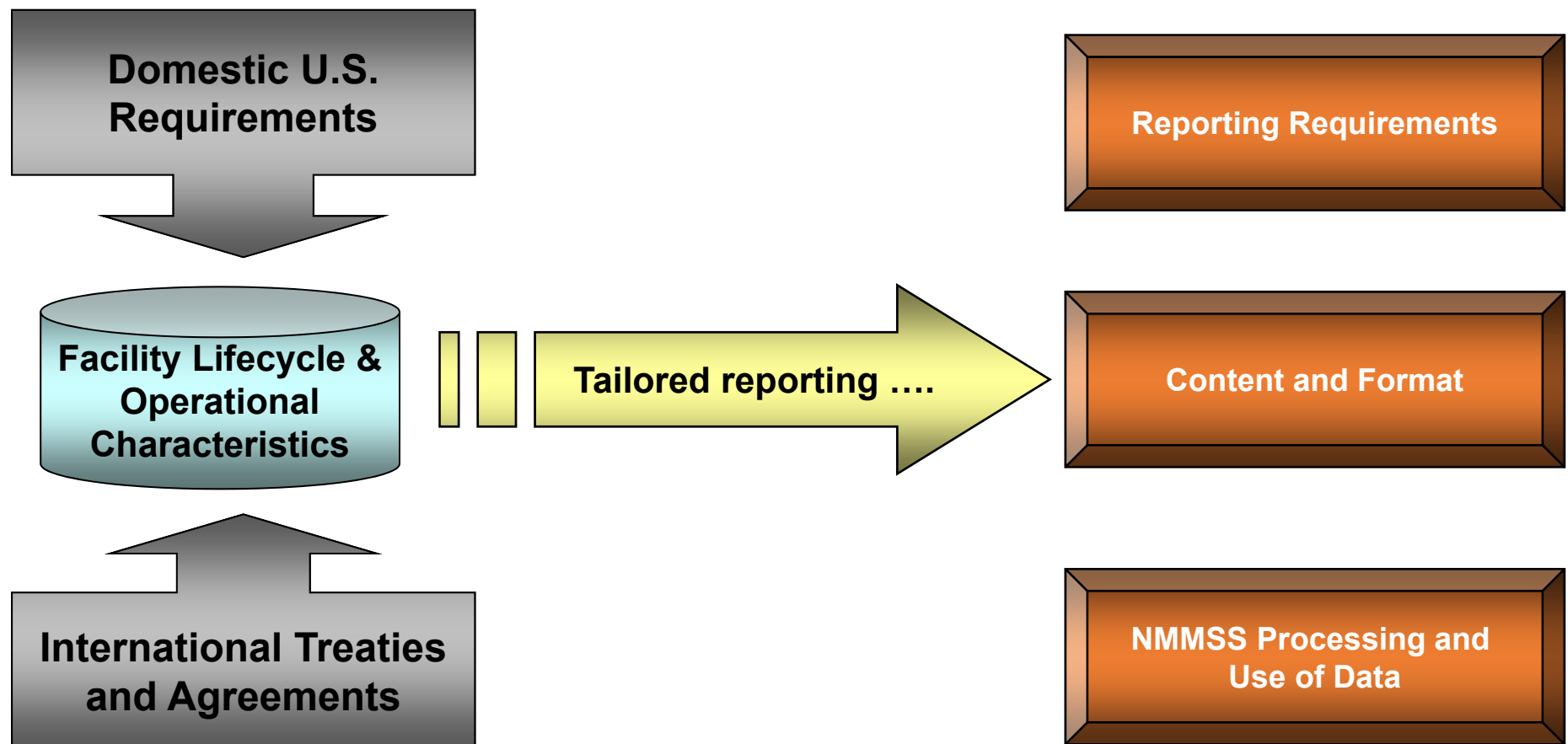


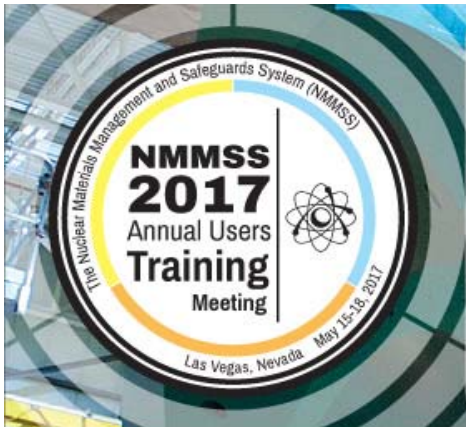
# Where to look for nuances....

- **Domestic regulations and requirements**
  - Typically structured per facility lifecycle
  - Provide overall framework and reporting criteria
  - DOE requires its facilities to track and report 17 types of materials to NMMSS
  - NRC requires its facilities to track and report 8 types of materials to NMMSS
- **International agreements and treaties**
  - Typically organized per class of facilities or operations
  - Focus on use of material
- **Facility-specific operation**
  - Material balance areas (MBAs)
  - Customers
  - Suppliers
  - Material use and processing



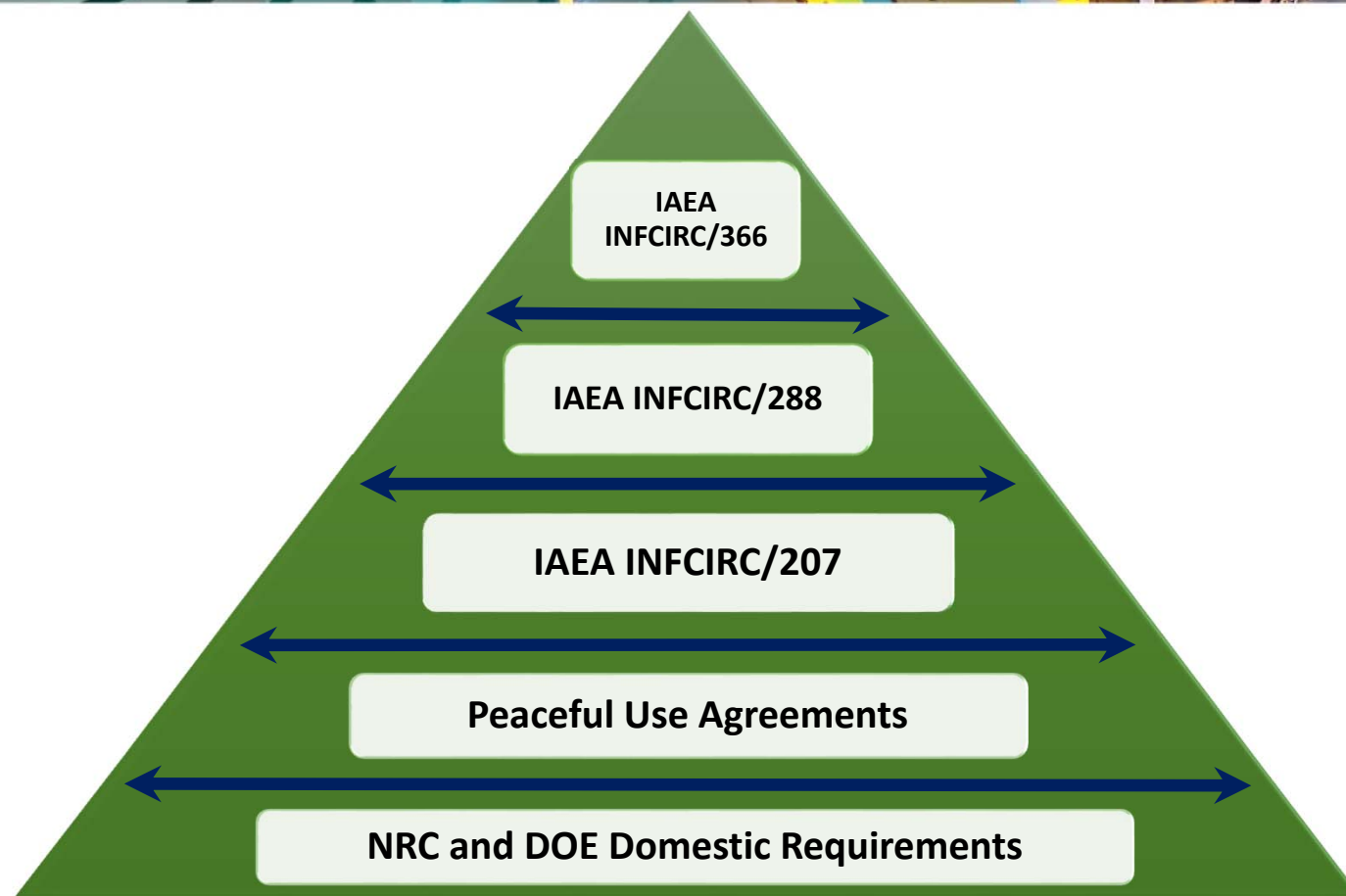
# Nuances do result in unique reporting



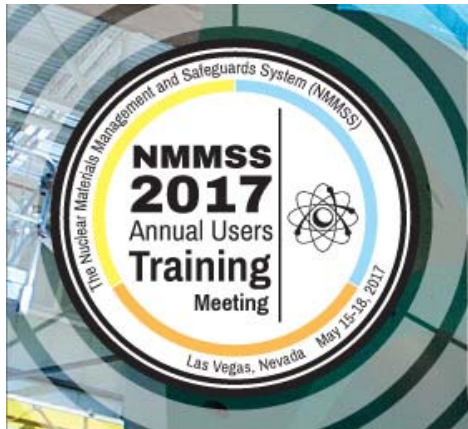


# There is a Multiplicity of Rules and Requirements

There are nuances within each set of rules and requirements...







# Nuances within requirements...

## Examples

- If your facility ships material to, or receives material from, the U.S. Caribbean territories
  - Your facility does not report the transaction to NMMSS
  - The nine entities based in the U.S. Caribbean territories must report both sides of transactions to NMMSS
- If you are an IAEA selected facility
  - Your facility-specific Transitional Facility **Attachment** (TFA) specifies additional data you must report to NMMSS
    - Key Measurement Point
    - Measurement Basis
    - Composition/facility code

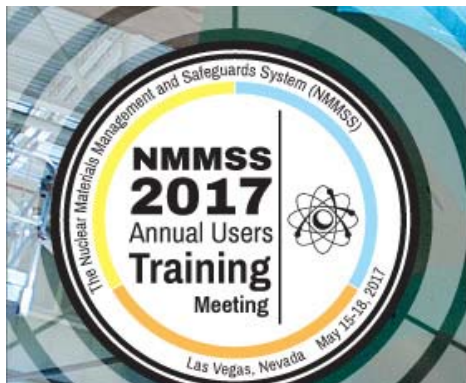


# Nuances within requirements...

## Examples

- If your facility possesses “obligated” nuclear material
  - The terms of each **Agreement for Nuclear Cooperation** governs what you can and cannot do with the material
  - Additional tracking and reporting requirements are mandated for the “obligated” nuclear material
    - Country of Obligation
    - Obligated element weight **and** obligated isotope weight
- Possessing DOE-owned nuclear material (owner code G) adds additional tracking and reporting requirements
  - Project number
  - Additional materials tracked and reported to NMMSS
  - September 30<sup>th</sup> inventory report
  - If ownership changes, you will need to add information in the For Account (box 12a) and/or To Account (box 13a) areas on the Form 741





# The only constant is the “how to” part

(Everyone uses the same mechanisms - harmonized reporting)

DOE/NRC FORM 741 (10-2014) Previous editions are obsolete MANDATORY DATA COLLECTION AUTHORIZED BY 10 CFR 30, 40, 50, 70, 72, 74, 75, 150 Public Laws 83-703, 93-438, 95-91										U. S. DEPARTMENT OF ENERGY AND U. S. NUCLEAR REGULATORY COMMISSION										APPROVED BY OMB: NO. 3150-0003 Estimated burden per response to comply with this mandatory collection request: 1 hour and 15 minutes. This information is required for IAEA accounting reports that show changes in inventory of nuclear materials. Send comments regarding burden estimate to the FOIA Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to InfoCollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10262, (3150-0003), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.										EXPIRES: 10/31/2017									
NUCLEAR MATERIAL TRANSACTION REPORT																																							
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c. UK REPORTABLE?										YES NO																													
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# Takeaways

- Reporting to NMMSS is relatively easy -- Complexities arise as a function of
  - Volume of shipments and receipts
  - Diversity of material and its isotopic composition
  - Processing of the material/blending
  - Quantities
  - Nature of customers and suppliers
  - Regulatory and treaty-specific requirements
- Recognizing facility-specific circumstances is key to navigating the reporting process
  - Peaceful Use Agreements vary
    - Some Agreements only involve obligated nuclear material
    - Some Agreements also involve obligated equipment
  - Transitional Facility Attachments (TFAs) vary
    - Reporting units, material balance areas (MBAs), etc.
- Clarify potential ambiguities with NRC or DOE
  - Applicability
  - Context
- Call NMMSS – We are here to help!